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AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

- 1 1-27. (Cancelled)
- 1 28. (Currently Amended) A method executed by a computer, comprising:
- determining a cost costs of mis-predicting each of a set of parts that may be replaced
- during an onsite repair of a product in response to a repair history, wherein the costs are
- 4 computed based on probabilities of over-predicting and under-predicting the parts;
- 5 selecting a subset of the parts to be sent to the onsite repair in response to the costs.
- 1 29. (Currently Amended) The method of claim 28, wherein computing the costs based on the
- 2 probabilities of over-predicting the parts comprises computing the costs determining a cost
- 3 includes determining a cost associated with unnecessarily sending the corresponding parts part to
- 4 the onsite repair.
- 1 30. (Currently Amended) The method of claim 28, wherein computing the costs based on the
- 2 probabilities of under-predicting the parts comprises computing the costs determining a cost
- 3 includes determining a cost associated with not sending the corresponding parts part when
- 4 needed to the onsite repair.
- 1 31. (Cancelled)

1	32. (Currently Amended) The method of claim 31, A method executed by a compute	er,
2	comprising:	
3	determining costs of mis-predicting parts that may be replaced during an onsite re	pair of
4	a product in response to a repair history;	
5	selecting a subset of the parts to be sent to the onsite repair in response to the cost	ts; and
6	identifying a set of symptoms associated with the product,	
7	wherein determining the costs comprises determining a cost of mis-predicting a s	<u>ubgroup</u>
8	of the parts comprises determining the cost in response to the symptoms according to par	ameters
9	indicating at least:	
0	(1) a number of trips that the set of symptoms were reported, the subgroup	<u>o of</u>
1	parts were sent, and at least one part not in the subgroup of parts was needed to complete	the:
12	onsite repair; and	
3	(2) a number of trips that the set of symptoms were reported, the subgroup	<u>of</u>
4	parts were sent, and the subgroup of parts included at least one part that was unnecessary	in the
5	onsite repair.	
1	33. (Currently Amended) The method of claim 28, wherein computing the costs base	d on the
2	probabilities of over-predicting and under-predicting is according to determining a cost in	ncludes :
3	determining a number numbers of times that the corresponding parts were each pro-	art was
4	under-predicted;	
5	determining a number numbers of times that the corresponding parts were each parts	art was
6	over-predicted;	
7	determining a number numbers of times that the corresponding parts were each pe	art was
8	correctly predicted.	

- 1 34. (Currently Amended) The method of claim [[31]] 33, further comprising:
- 2 computing the probabilities of under-predicting the parts using wherein determining a
- 3 cost includes combining the numbers of times that the parts were under-predicted; and
- 4 computing the probabilities of over-predicting the parts using the numbers of times the
- 5 parts were over-predicted with a cost associated with under predicting the parts and a cost
- 6 associated with over-predicting the parts.
- 1 35. (Cancelled)
- 1 36. (Currently Amended) The method of claim [[35]] 28, wherein determining the costs
- 2 includes determining an average of the costs associated with under-predicting and over-
- 3 predicting the parts.
- 1 37. (Currently Amended) The method of claim 28, wherein selecting [[a]] the subset of the
- 2 parts includes selecting [[a]] the subset of the parts for transport to the onsite repair.
- 1 38. (Currently Amended) The method of claim 28, wherein selecting [[a]] the subset of the
- 2 parts includes selecting [[a]] the subset of the parts for training of call qualifiers.
- 1 39. (Currently Amended) The method of claim 28, wherein selecting [[a]] the subset of the
- 2 parts includes selecting [[a]] the subset of the parts for flagging to call qualifiers.
- 1 40. (Currently Amended) The method of claim 28, wherein selecting [[a]] the subset of the
- 2 parts includes selecting [[a]] the subset of the parts for stocking a repair vehicle.
- 1 41. (Previously Presented) The method of claim 28, further comprising determining which
- 2 products are least desirable to support in response to the costs.
- 1 42. (Previously Presented) The method of claim 28, further comprising determining which
- 2 personnel to target for additional training in response to the costs.

- 1 43. (Currently Amended) An apparatus having a computing device that determines a cost
- 2 costs of mis-predicting each of a set of parts that may be replaced during an onsite repair of a
- 3 product in response to a repair history and that selects a subset of the parts to be sent to the onsite
- 4 repair in response to the costs,
- 5 wherein the costs are computed based on probabilities of over-predicting and under-
- 6 predicting the parts.
- 1 44. (Currently Amended) The apparatus of claim 43, wherein the computing device
- 2 computes determines the costs based on the probabilities by determining a number numbers of
- 3 times that the corresponding parts were each part was under-predicted and a number numbers of
- 4 times that the parts were each part was over-predicted and determining a number numbers of
- 5 times that the corresponding parts were each part was correctly predicted.
- 1 45. (Currently Amended) The apparatus of claim 43 An apparatus having a computing
- 2 device that determines costs of mis-predicting parts that may be replaced during an onsite repair
- 3 of a product in response to a repair history and that selects a subset of the parts to be sent to the
- 4 onsite repair in response to the costs,
- 5 wherein the computing device determines costs comprise a cost of mis-predicting a
- 6 <u>subgroup of the parts according to parameters indicating at least:</u>
- 7 (1) a number of trips that a set of symptoms were reported, the subgroup of parts
- 8 were sent, and at least one part not in the subgroup of parts was needed to complete the onsite
- 9 repair; and
- 10 (2) a number of trips that the set of symptoms were reported, the subgroup of
- 11 parts were sent, and the subgroup of parts included at least one part that was unnecessary in the
- 12 onsite repair the costs in response to a set of symptoms associated with the onsite repair.
- 1 46. (Previously Presented) The apparatus of claim 43, wherein the repair history includes an
- 2 identification of a set of parts sent to a set of prior onsite repairs and a list of actual parts needed
- 3 in the prior onsite repairs.

- 1 47. (Cancelled)
- 1 48. (Currently Amended) The apparatus of claim 43, wherein the costs determined by the
- 2 computing device comprise determines a waste metrics metric for a plurality of sets of parts and
- 3 the subset of parts selected comprises less than all selects the sets of parts for the onsite repair in
- 4 response to the waste metrics metric.
- 1 49. (Previously Presented) The apparatus of claim 43, wherein the parts are selected for
- 2 transport to the onsite repair.
- 1 50. (Previously Presented) The apparatus of claim 43, wherein the parts are selected for
- 2 training of call qualifiers.
- 1 51. (Previously Presented) The apparatus of claim 43, wherein the parts are selected for
- 2 flagging to call qualifiers.
- 1 52. (Previously Presented) The apparatus of claim 43, wherein the parts are selected for
- 2 stocking a repair vehicle.
- 1 53. (Previously Presented) The apparatus of claim 43, wherein the computing device
- determines which products are least desirable to support in response to the costs.
- 1 54. (Previously Presented) The apparatus of claim 43, wherein the computing device
- 2 determines which personnel to target for additional training in response to the costs.
- 1 55. (New) The method of claim 28, wherein determining the costs of mis-predicting the parts
- 2 is for a particular onsite repair of a particular product, and wherein selecting the subset of the
- 3 parts is for the particular onsite repair of the particular product.

- 1 56. (New) The method of claim 28, wherein determining the costs of mis-predicting parts
- 2 comprises determining the costs of mis-predicting corresponding sets of parts.
- 1 57. (New) The method of claim 56, wherein selecting the subset of parts comprises selecting
- 2 less than all of the sets of parts.
- 1 58. (New) The method of claim 28, wherein determining the costs of mis-predicting
- 2 comprises determining expected wastes for the corresponding parts, wherein each expected
- 3 waste is computed based on a number of times the corresponding part was under-predicted, a
- 4 number of times the corresponding part was over-predicted, a number of times the corresponding
- 5 part was correctly predicted, a cost of over-predicting the corresponding part, and a cost of
- 6 under-predicting the corresponding part.
- 1 59. (New) The method of claim 28, wherein computing the costs based on the probabilities
- 2 of over-predicting and under-predicting takes into account a cost of an extra trip to a repair site
- 3 and a cost of one of restocking and storing an unneeded part.
- 1 60. (New) The method of claim 28, wherein selecting the subset of parts comprises selecting
- 2 less than all the parts.
- 1 61. (New) The apparatus of claim 43, wherein the costs of mis-predicting comprise expected
- 2 wastes for the corresponding parts, and wherein each expected waste is computed based on a
- 3 number of times the corresponding part was under-predicted, a number of times the
- 4 corresponding part was over-predicted, a number of times the corresponding part was correctly
- 5 predicted, a cost of over-predicting the corresponding part, and a cost of under-predicting the
- 6 corresponding part.